| Inde | x of | Clair | ns |
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| Application/Control No. | , |
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Ji-Yong D. Chung

Applicant(s)/Patent under Reexamination

10/034,232

TEMOSHENKO ET AL. Art Unit

Examiner

2143

Rejected Allowed

(Through numeral) Cancelled Restricted

Non-Elected N Interference

**Appeal** Α 0 Objected

|          |                  | L                                   | L        |          |          |              | l        |          |          | L        |   |
|----------|------------------|-------------------------------------|----------|----------|----------|--------------|----------|----------|----------|----------|---|
|          |                  |                                     |          |          |          |              |          |          |          |          |   |
| Cla      | aim              |                                     |          |          | [        | Date         | 9        |          |          |          |   |
| Final    | Original         | 2/28/2001-                          |          |          |          |              |          |          |          |          |   |
| -        | 1                | Ÿ                                   | _        | _        |          |              |          | -        | $\vdash$ | _        |   |
|          | 1<br>2<br>3<br>4 | H                                   |          | _        |          | _            |          | ┝        | _        | _        |   |
|          | 3                | Н                                   |          |          |          |              |          |          |          |          |   |
|          | 4                | +                                   | -        |          |          |              |          | $\vdash$ | $\vdash$ |          | 1 |
| $\vdash$ | 5                | Н                                   | -        | -        |          | -            |          |          |          |          | 1 |
|          | 6                | Н                                   | -        |          |          |              |          |          |          |          |   |
|          | 7                | Н                                   | Н        |          |          |              | _        | $\vdash$ | $\vdash$ |          |   |
|          |                  | H                                   |          | _        |          |              |          |          |          |          |   |
|          | 8                | Н                                   |          |          |          |              |          |          |          |          |   |
|          | 10               | П                                   |          |          | _        |              |          |          |          |          |   |
|          | 11               | П                                   |          |          |          |              |          |          |          |          |   |
|          | 12               | П                                   |          |          |          |              |          |          |          |          |   |
|          | 11<br>12<br>13   | П                                   |          |          |          |              |          |          |          |          |   |
|          | 14               | H                                   |          |          |          |              |          |          |          |          |   |
|          | 14<br>15         | П                                   |          |          |          |              |          |          |          |          |   |
|          | 16<br>17         |                                     |          |          |          |              |          |          |          |          |   |
|          | 17               | Ш                                   |          |          |          | <u> </u>     |          | L        | L.       | L_       |   |
| L        | 18<br>19         | Ш                                   |          |          |          | _            |          | _        |          | _        |   |
| ļ        | 19               | Ш                                   |          | L        |          | _            | _        |          |          | L        |   |
|          | 20               | Ш                                   |          | _        |          |              |          | <u> </u> | L        | _        |   |
|          | 21               | Щ.                                  | _        |          |          | _            | _        | ļ        |          | L        |   |
|          | 22<br>23         | ╙                                   |          |          |          | _            | _        |          |          |          |   |
| -        | 23               | ╂                                   | -        |          |          | H            | _        | _        | H        |          |   |
| -        | 24               | 1                                   | -        |          | _        | -            | <u> </u> |          | $\vdash$ | _        |   |
|          | 25<br>26         | -                                   |          | _        |          | _            | ┝        | $\vdash$ | -        | -        |   |
|          | 27               |                                     |          | $\vdash$ | _        | $\vdash$     | $\vdash$ | ┢        | -        | -        |   |
|          | 28               | $\vdash$                            | $\vdash$ |          | _        | $\vdash$     | $\vdash$ |          |          |          |   |
|          | 29               |                                     |          |          |          |              | _        |          | ·        |          |   |
|          | 30               |                                     |          |          |          |              |          |          |          |          |   |
|          | 31               |                                     |          |          |          |              |          |          |          |          |   |
|          | 32               |                                     |          |          |          |              |          |          |          |          |   |
| L        | 33               |                                     |          |          |          |              |          |          | L        |          |   |
|          | 34               |                                     |          |          |          |              |          | _        |          | _        |   |
|          | 35               |                                     |          |          |          | _            | <u> </u> | <u> </u> | _        | ldash    |   |
| <u> </u> | 36<br>37         |                                     |          | _        |          |              |          |          |          | _        |   |
| -        |                  |                                     |          | ┝        |          | ⊢            | ┝        | ⊢        | -        | -        |   |
|          | 38<br>39         | $\vdash$                            | -        | _        | _        | -            | -        |          | -        | <u> </u> |   |
| -        | 40               | -                                   |          |          |          | -            | -        | -        | $\vdash$ | -        |   |
| <b> </b> | 41               |                                     | _        |          |          |              |          | $\vdash$ | Н        |          |   |
|          | 42               | $\vdash$                            | Г        |          |          | <u> </u>     | Т        | Г        |          | _        |   |
|          | 43               |                                     |          |          |          |              |          |          |          |          |   |
|          | 44               |                                     |          |          |          |              |          |          |          |          |   |
|          | 45               |                                     |          |          |          |              |          |          |          |          |   |
|          | 46               |                                     |          |          |          |              | L        |          |          |          |   |
| <u></u>  | 47               | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |          |          | _        | $oxed{oxed}$ |          | <u> </u> | <u> </u> | <u> </u> |   |
|          | 48               | <b>—</b>                            | L_       | <u> </u> | <u> </u> | <u> </u>     |          | <b> </b> | $\vdash$ | <u> </u> |   |
| <u> </u> | 49               | H                                   | H        | _        | _        |              | <u> </u> | $\vdash$ | ├        | <u> </u> |   |
|          |                  |                                     |          |          |          |              |          |          |          |          |   |

| Cla       | im          |          |          |   |                | (  | Date   | Э  |              |  |  |     | Cla   | im       |          |               |    | (  | Date   | 9              |              |          |          |
|-----------|-------------|----------|----------|---|----------------|--|--|--|--------------|--|--|-----|-------|----------|----------|---------------|----|----|--|----------------|--------------|----------|----------|
|           | Original    | 19666    | 1/10/100 |   |                |  |  |  |              |  |  |     | Final | Original |          |               |    |    |  |                |              |          |          |
|           | 1           | Y        | 7        |   |                |  |  |  |              | Г  |  |     |       | 51       |          |               |    |    |  |                |              |          |          |
| ٦         | 2           | П        | 1        |   |                |  |  |  |              |  |  |     |       | 52       |          |               |    |    |  |                |              |          |          |
|           |             | П        | 1        |   |                |  |  |  |              |  |  |     |       | 53       |          |               |    |    |  |                |              |          |          |
| 7         | 4           | П        | 1        | - |                |  |  |  |              |  |  |     |       | 54       |          |               |    |    |  |                |              |          | П        |
|           | 3<br>4<br>5 | П        | 1        |   |                |  |  |  |              |  |  |     |       | 55       |          |               |    |    |  |                |              |          |          |
|           | 6           | П        | 1        |   |                |  |  |  |              |  |  |     |       | 56       |          |               |    |    |  |                |              |          |          |
|           | 7           | П        | 1        |   |                |  |  |  |              |  |  |     |       | 57       |          |               |    |    |  |                |              |          |          |
| ╗         | 8           | П        | 7        |   |                |  |  |  |              |  |  |     |       | 58       |          |               |    |    |  |                |              |          | $\neg$   |
|           | 9           | П        | 7        |   |                |  |  |  |              |  |  |     |       | 59       |          |               |    |    |  |                |              |          | $\sqcap$ |
|           | 10          | П        | 7        |   |                |  |  |  |              |  |  |     |       | 60       |          |               |    |    |  |                |              |          |          |
| T         | 11          | П        | 7        |   |                |  |  |  |              |  |  |     |       | 61       |          |               |    |    |  |                |              |          |          |
| ╛         | 12          | П        | 7        |   |                |  |  |  |              |  | П  |     |       | 62       |          |               |    |    |  |                |              |          |          |
|           | 13          | П        | 7        |   |                |  |  |  |              |  | Г  |     |       | 63       |          |               |    |    |  |                |              |          |          |
| ┪         | 14          | П        | 1        |   |                |  |  |  |              |  |  |     |       | 64       | П        |               |    |    |  |                |              |          |          |
| 7         | 15          | П        | 1        |   |                |  |  |  |              |  |  |     |       | 65       |          |               |    |    | П  |                |              |          |          |
| $\exists$ | 16          | H        | 7        |   | -              |  |  |  | $\vdash$     |  |  |     |       | 66       |          |               |    |    |  |                |              |          |          |
| ╗         | 17          | H        | 7        |   |                |  |  |  |              |  |  |     |       | 67       | П        |               |    |    |  |                |              |          |          |
| 7         | 18          | П        | 7        |   |                |  |  |  |              |  |  |     |       | 68       |          |               |    | _  |  |                |              |          |          |
| ┪         | 19          | H        | 7        |   |                |  |  | <del>                                     </del> | $\vdash$     | _  | Г  |     |       | 69       |          |               |    |    |  |                |              |          |          |
| ┪         | 20          | H        | 7        |   |                |  |  |  | -            |  | Г  |     |       | 70       |          |               |    |    |  | _              |              |          |          |
| ┪         | 21          | H        | 7        |   | $\vdash$       | _  | -  |  | _            | $\vdash$   | T  |     |       | 71       |          | $\overline{}$ |    |    |  | _              |              |          | $\neg$   |
| ┪         | 22          | H        | 7        | _ | _              | _  |  | $\vdash$   | -            | $\vdash$   | ┢  |     |       | 72       | _        |               |    |    |  | _              | -            |          | $\dashv$ |
| 7         | 23          | H        | 1        |   | -              |  |  |  | -            | -  | H  |     |       | 73       | _        | _             |    | _  |  | _              | $\vdash$     |          | $\dashv$ |
| 7         | 24          | H        | 7        |   |                |  |  |  |              |  | _  |     |       | 74       | $\vdash$ | _             |    |    |  | Г              |              | _        | $\neg$   |
| ┪         | 25          | V        | 1        |   |                |  | -  | $\vdash$   |              | $\vdash$   | $\vdash$   |     |       | 75       |          | _             |    |    |  |                |              |          |          |
| 7         | 26          |          | 7        |   | $\vdash$       | ┞  |  | $\vdash$   | $\vdash$     | <del>                                     </del> | <del>                                     </del> |     | -     | 76       |          |               |    |    |  |                |              | _        | $\neg$   |
| $\dashv$  | 27          | Г        | 7        |   | $\vdash$       | $\vdash$   | Т  | $\vdash$   | $\vdash$     | $\vdash$   | <del>                                     </del> |     |       | 77       |          |               |    | _  | Н  |                |              |          |          |
| ┪         | 28          | Н        | 7        |   | $\overline{}$  | $\vdash$   | $\vdash$   | ┢  |              | 1  | $\vdash$   |     | -     | 78       |          | _             |    | _  |  |                | -            |          | $\neg$   |
| ┪         | 29          | H        | +        |   |                |  |  | ┢  | _            | -  | <del>                                     </del> |     |       | 79       |          |               |    |    | Н  |                |              |          | $\neg$   |
| 7         | 30          | H        | +        |   | $\vdash$       | ┢  |  | T  | $\vdash$     | H  | $\vdash$   |     |       | 80       |          |               |    | -  | _  | Г              |              |          | $\neg$   |
| ┪         | 31          | ┢        | 7        |   | $\vdash$       |  | _  | $\vdash$   |              | $\vdash$   | $\vdash$   |     |       | 81       |          |               | _  | _  |  |                |              |          | $\neg$   |
| 7         | 32          | Т        | 7        |   | $\vdash$       |  |  |  | $\vdash$     | $\vdash$   | $\vdash$   |     |       | 82       |          |               | _  |    |  |                | _            |          | $\neg$   |
| ┪         | 33          | Н        | +        |   | $\vdash$       | $\vdash$   | ┢  | <del>                                     </del> | _            | -  | $\vdash$   |     |       | 83       |          |               |    |    | Т  | Н              |              |          | 一        |
| ┪         | 34          | ┢        | 7        |   |                | -  |  | -  | -            | -  | <del>                                     </del> |     |       | 84       |          |               |    |    | Т  |                | _            | _        | $\neg$   |
| 7         | 35          | 1        | +        |   | _              |  |  | $\vdash$   |              |  | Т  |     |       | 85       | _        | _             |    |    | Н  | _              | _            | _        | ヿ        |
| ᅥ         | 36          | ┢        | 7        |   | _              |  | $\vdash$   | ┢  | $\vdash$     | _  | $\vdash$   |     |       | 86       | _        |               |    |    |  | -              |              |          |          |
| ┪         | 37          | H        | 7        |   | $\vdash$       |  | _  | _  | -            | _  | ┢  |     |       | 87       |          |               |    |    |  | -              | $\vdash$     |          | _        |
| 寸         | 38          | Г        | 7        |   | $\vdash$       |  | $\vdash$   | 1  | $\vdash$     | -  | _  |     |       | 88       |          |               |    |    | _  | _              | Г            | П        | П        |
| ┪         | 39          | ┢        | 7        |   | $\vdash$       | $\vdash$   | -  | Ι-   | _            | <del>                                     </del> | 一  |     |       | 89       | <u> </u> |               |    | _  | _  |                | H            | _        |          |
| ┪         | 40          | ┢        | +        |   |                | -  | -  | -  | $\vdash$     | $\vdash$   | ┢  |     |       | 90       |          |               |    |    | $\vdash$   |                |              | -        | _        |
| ٦         | 41          | Г        | 7        | _ |                | $\vdash$   |  |  | $\vdash$     | $\vdash$   | $\vdash$   | 1   |       | 91       | $\vdash$ |               | _  |    | $\vdash$   | Н              | $\vdash$     | Н        | Н        |
| -         | 42          | ┝        | ┪        | _ | _              | $\vdash$   | _  | <del>                                     </del> | $\vdash$     | $\vdash$   | ┢  |     |       | 92       | -        | _             |    | _  | $\vdash$   | -              | $\vdash$     | Н        | Н        |
| ┪         | 43          | H        | +        |   |                | l –  |  | $\vdash$   | $\vdash$     | H  | H  |     |       | 93       | $\vdash$ | $\vdash$      |    | _  | $\vdash$   | Н              | $\vdash$     | Н        | Н        |
| 7         | 44          | -        | ┪        | _ | _              | $\vdash$   | -  | _  | ┢            | -  | ┢  |     |       | 94       | -        | -             | _  | _  | ┢┈   | <u> </u>       | $\vdash$     | _        | Н        |
| -         | 45          | H        | +        | - | <del> </del> - | -  | <del> </del>                                     | $\vdash$   | $\vdash$     | $\vdash$   | -  |     |       | 95       | $\vdash$ | -             |    | -  | -  | $\vdash$       | $\vdash$     | Η-       | $\vdash$ |
| -         | 46          | $\vdash$ | +        |   | -              | <del>                                     </del> | <del>                                     </del> | <del> </del>                                     | <del> </del> | <del>                                     </del> | $\vdash$   |     |       | 96       | $\vdash$ | $\vdash$      |    | -  | $\vdash$   | <u> </u>       | $\vdash$     | Н        | $\dashv$ |
| $\dashv$  | 47          | $\vdash$ | +        |   |                | -  | $\vdash$   |  |              | _  | 1  |     |       | 97       | $\vdash$ | -             |    |    | $\vdash$   | -              | <del> </del> | -        | $\dashv$ |
| $\dashv$  | 48          | $\vdash$ | ┪        |   |                | $\vdash$   |  |  | $\vdash$     | $\vdash$   |  |     |       | 98       | H        |               |    | _  | $\vdash$   | <del>  -</del> | $\vdash$     | -        | $\dashv$ |
| $\dashv$  | 49          | ┢        | +        |   | $\vdash$       | $\vdash$   | $\vdash$   | -  | $\vdash$     | $\vdash$   | $\vdash$   |     |       | 99       | Н        |               |    | -  | <del>                                     </del> | $\vdash$       | $\vdash$     | $\vdash$ | $\dashv$ |
| ᅥ         | 50          | H        | +        |   | $\vdash$       | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$     |  | $\vdash$   |     |       | 100      |          |               | -  | -  | ├  | $\vdash$       | Н            | $\vdash$ | $\dashv$ |
| _         | -50         | _        | _1       |   |                |  | Щ  |  | L            | Ц  | Щ.   | j : | Щ.    | 1.00     | <u> </u> | Ц             | Ц. | Ц. | L  |                |              |          | لب       |

| Cli      | aim                      | Date     |                                     |  |              |  |              |              |  |                 |  |
|----------|--------------------------|----------|-------------------------------------|--|--------------|--|--------------|--------------|--|-----------------|--|
| Final    | Original                 |          |                                     |  |              |  |              |              |  |                 |  |
|          |                          |          |                                     |  |              |  |              |              |  | Щ               |  |
|          | 101                      |          |                                     |  | L            | ļ  |              |              |  | Щ               |  |
|          | 102                      | _        |                                     | _  | _            | <u> </u>   | _            |              | Щ  | $\dashv$        |  |
|          | 103<br>104               |          | -                                   |  | <u> </u>     | <u> </u>   |              |              | <u> </u>   | -               |  |
|          | 105                      | H        |                                     |  |              | <del> </del>                                     | _            | _            | -  | $\dashv$        |  |
|          | 106                      |          |                                     |  |              |  |              | _            |  | $\dashv$        |  |
|          | 107                      | _        | _                                   | -  |              | H  |              |              |  | $\dashv$        |  |
|          | 108<br>109               |          |                                     |  |              |  | П            |              |  |                 |  |
|          | 109                      |          |                                     |  |              |  |              |              |  |                 |  |
|          | 110                      |          |                                     |  |              |  |              |              |  |                 |  |
|          | 111                      |          |                                     |  |              |  |              |              |  |                 |  |
|          | 112<br>113               |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _  | L            | _  |              | _            | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              | Щ               |  |
|          | 113                      | _        | _                                   | <u> </u>   | <u> </u>     | $\vdash$   | <u> </u>     | <u> </u>     | <u> </u>   | Ш               |  |
|          | 114<br>115               | <u> </u> | $\vdash$                            | $\vdash$   | <u> </u>     | ├-   |              | L            | H  | Н               |  |
|          | 116                      |          | $\vdash$                            | <del> </del>                                     | ├            | -  | -            | <u> </u>     | <u> </u>   | $\vdash$        |  |
|          | 116<br>117               | -        |                                     | ├  | $\vdash$     | ├  | $\vdash$     | —            | <u> </u>   | Н               |  |
|          | 118                      | $\vdash$ | $\vdash$                            | ┢  | $\vdash$     | $\vdash$   | Н            |              | <del>                                     </del> | Н               |  |
|          | 118<br>119<br>120<br>121 |          | T                                   | -  | $\vdash$     |  |              | <del> </del> | ┢  | Н               |  |
|          | 120                      |          |                                     |  | $\vdash$     |  |              |              |  | П               |  |
|          | 121                      |          |                                     |  |              |  |              |              |  |                 |  |
|          | 122                      |          |                                     |  |              |  |              |              |  |                 |  |
|          | 123                      |          |                                     |  |              |  |              |              |  |                 |  |
|          | 122<br>123<br>124<br>125 |          |                                     |  |              | <u> </u>   |              | L            |  | Ш               |  |
| •        | 125                      | _        | L                                   | _  | _            | <u> </u>   | <u> </u>     |              | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              | Щ               |  |
|          | I 126                    | -        |                                     | <u> </u>   |              | ļ  | _            | _            | _  | -               |  |
|          | 127<br>128<br>129        | -        | -                                   |  | -            | -  | -            |              | <u> </u>   |                 |  |
|          | 120                      | _        | <u> </u>                            | ├—   | <del> </del> | ├  |              | _            | -  | Н               |  |
|          | 130                      | -        |                                     |  |              | ┢  | -            |              | H  |                 |  |
|          | 130<br>131               | -        | -                                   | -  |              | H  |              |              |  |                 |  |
|          | 132                      |          | H                                   | <del>                                     </del> |              | ┢  | $\vdash$     |              |  | T               |  |
|          | 133<br>134               |          | Г                                   | <u> </u>   | Г            |  | Г            |              |  | П               |  |
|          | 134                      |          |                                     |  |              |  |              |              |  |                 |  |
|          | 135<br>136               |          | 匚                                   |  |              |  |              |              |  |                 |  |
|          | 136                      |          | L                                   | <u> </u>   |              |  | L            |              |  |                 |  |
|          | 137                      |          | $ldsymbol{f eta}$                   | <u> </u>   | $\vdash$     | ļ  | $\sqcup$     | _            | L  | Н               |  |
| <u> </u> | 138<br>139               | <u> </u> | <u> </u>                            | <del>                                     </del> | ⊢            |  | ļ            |              | ├  | Н               |  |
|          | 140                      | -        | $\vdash$                            | $\vdash$   |              | $\vdash$   | <del> </del> | _            | ⊢  | $\vdash \vdash$ |  |
|          | 4 4 4                    | ⊢        | -                                   | $\vdash$   | -            | $\vdash$   | $\vdash$     | $\vdash$     | ├-   | Н               |  |
|          | 141                      | ┝        | -                                   | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$     | $\vdash$     | $\vdash$   | $\vdash$        |  |
|          | 143                      | H        | $\vdash$                            | $\vdash$   | -            | <del>                                     </del> | $\vdash$     | Н            | $\vdash$   | Н               |  |
|          | 144                      | $\vdash$ |                                     |  | $\vdash$     | Т  |              | Г            | <del>                                     </del> | Н               |  |
|          | 145                      |          |                                     |  |              |  |              |              |  |                 |  |
|          | 146                      |          |                                     |  |              |  |              |              |  |                 |  |
|          | 147                      |          |                                     |  |              |  |              |              |  |                 |  |
|          | 148                      | $\Box$   | 匚                                   | $\perp$  |              |  | <u> </u>     |              | Ĺ  | Ш               |  |
|          | 149                      | L        | _                                   | _  | _            | <u> </u>   | <u> </u>     | <u> </u>     | <u> </u>   | Ш               |  |
|          | 150                      | L.       | <u>L</u>                            |  |              |  |              | L            | <u>L_</u>  |                 |  |
|          |                          |          |                                     |  |              |  |              |              |  |                 |  |

ppc